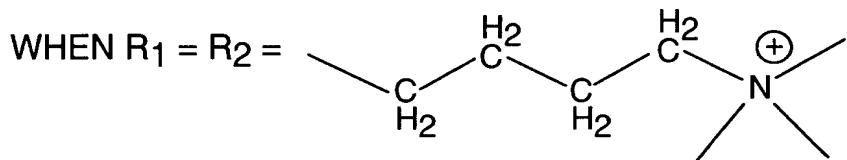
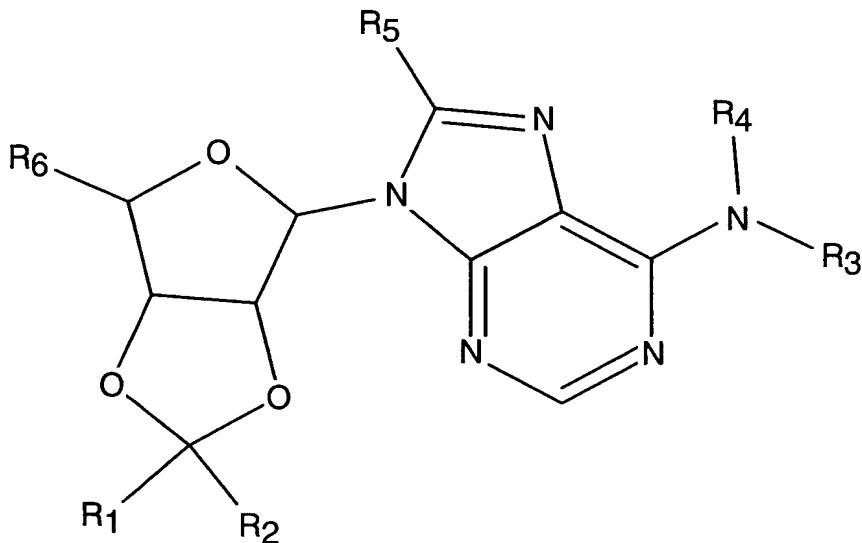


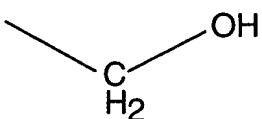


1/7



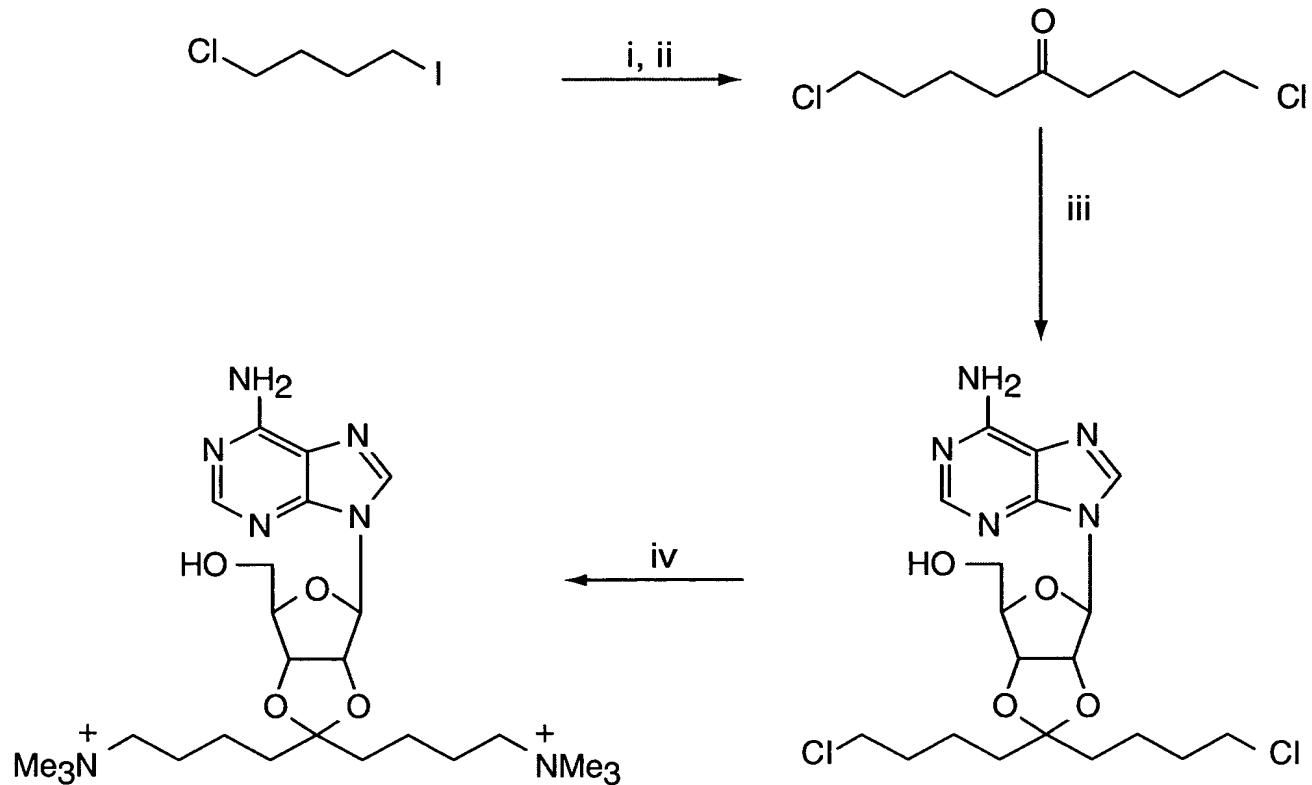
AND R₃, R₄ AND R₅ = HYDROGEN

AND R₆ =



CHEMICAL STRUCTURE OF ADENOSINE CYCLIC KETAL (ACK) AND THE CHEMICAL FORMULA OF THE COMPOUND NONAMETHONIUM ADENOSINE CYCLIC KETAL (NONAMETHONIUM ACK).

FIG. 1A



The synthetic scheme for synthesizing nonamethonium adenosine cyclic ketal.

The reagents and conditions are: i) zinc dust, tetrahydrofuran (THF);

ii) N-methylpyrrolidine, CoBr₂, carbon monoxide;

iii) adenosine, HCl/dioxane, (EtO)₃CH, DMF; iv) 40% Me₃N in H₂O.

FIG. 1B

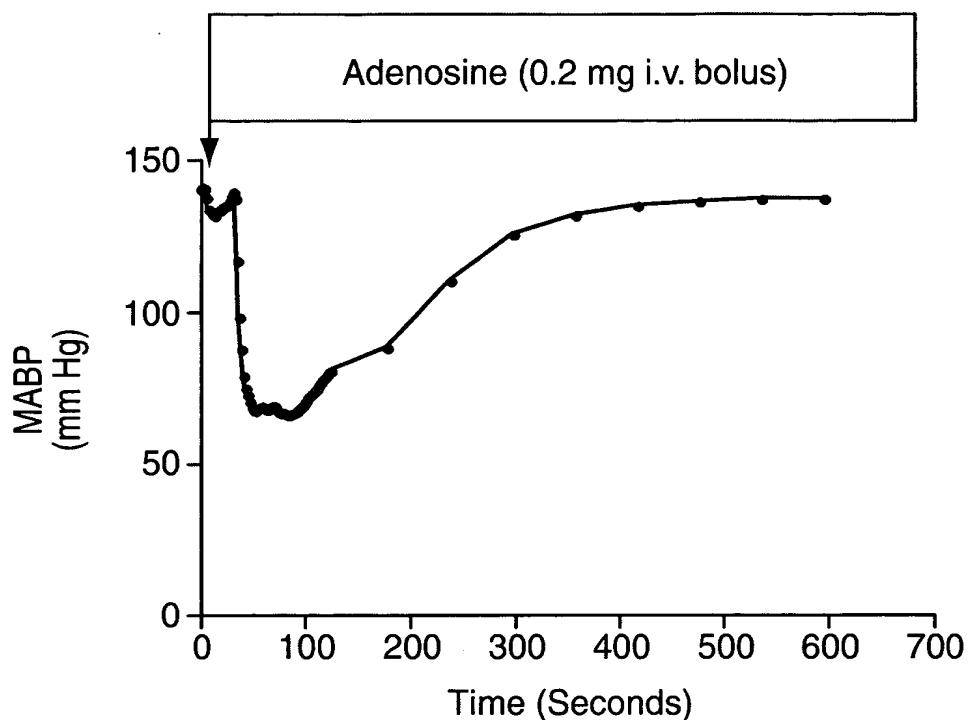


FIG. 2A

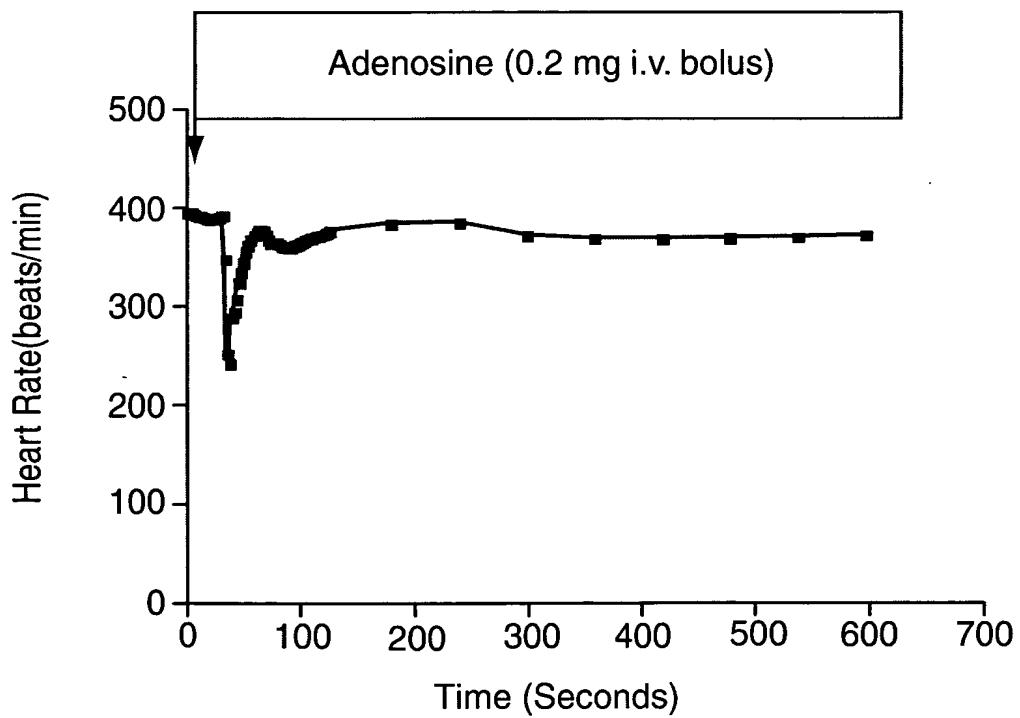


FIG. 2B

4/7

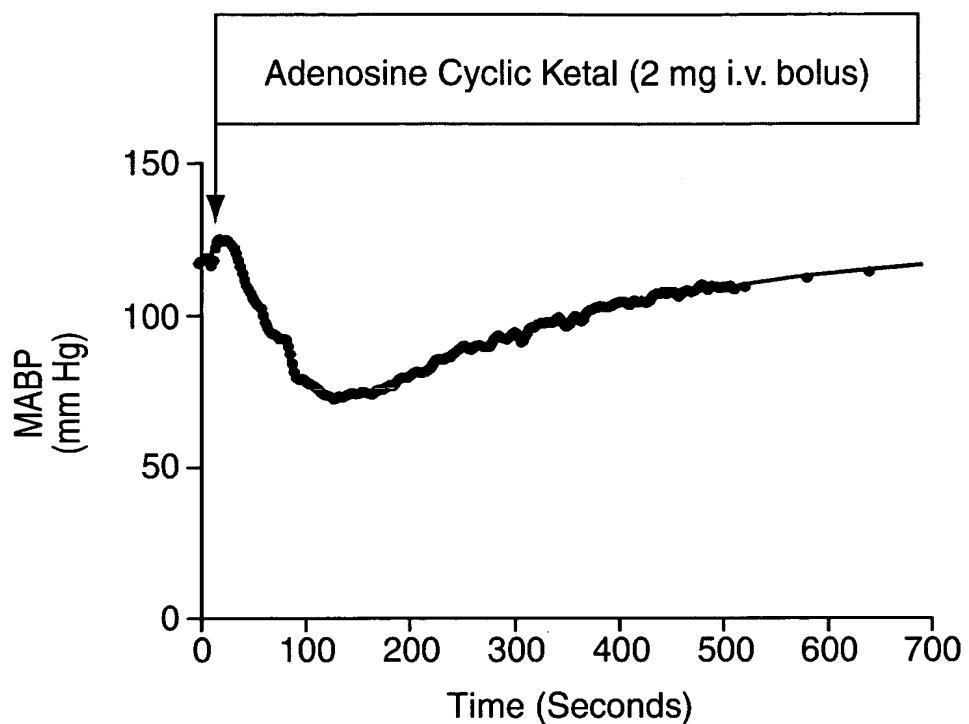


FIG. 3A

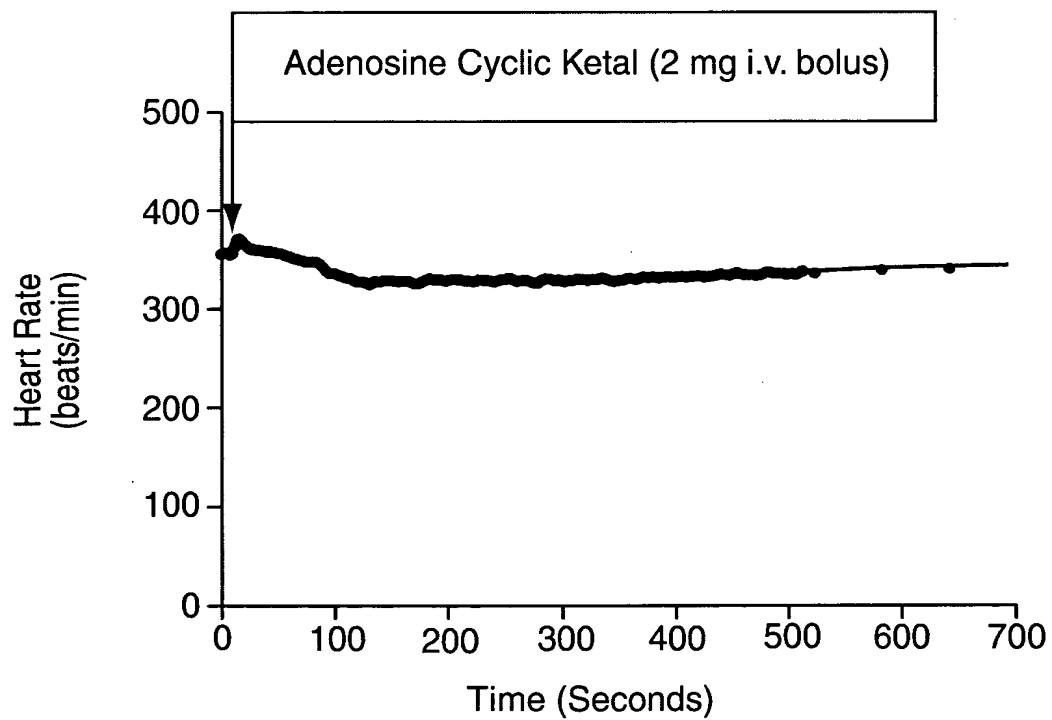


FIG. 3B

5/7

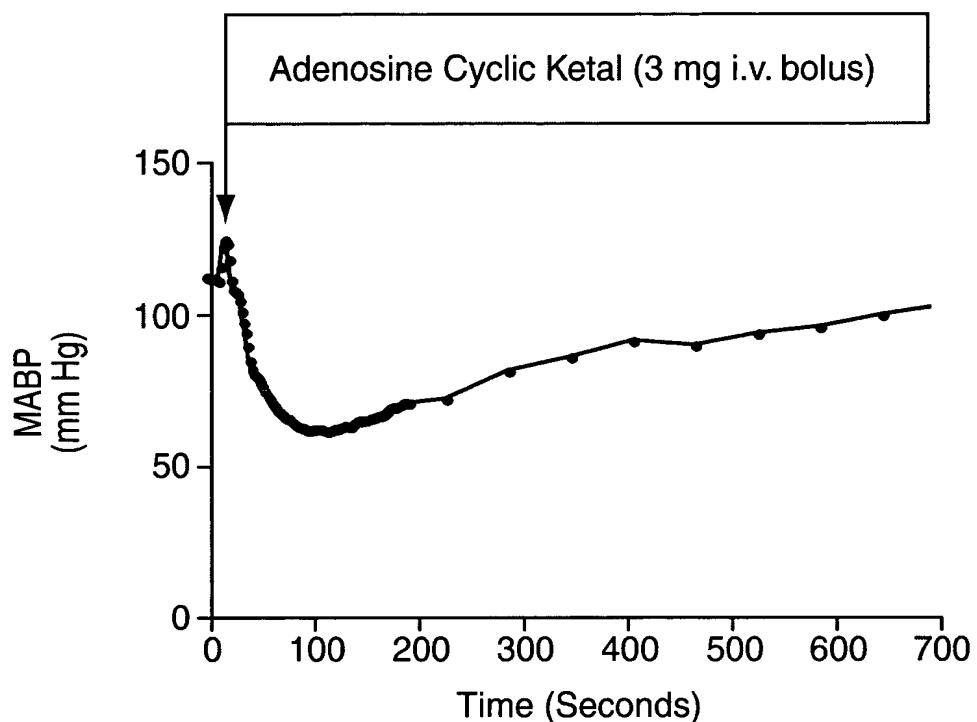


FIG. 4A

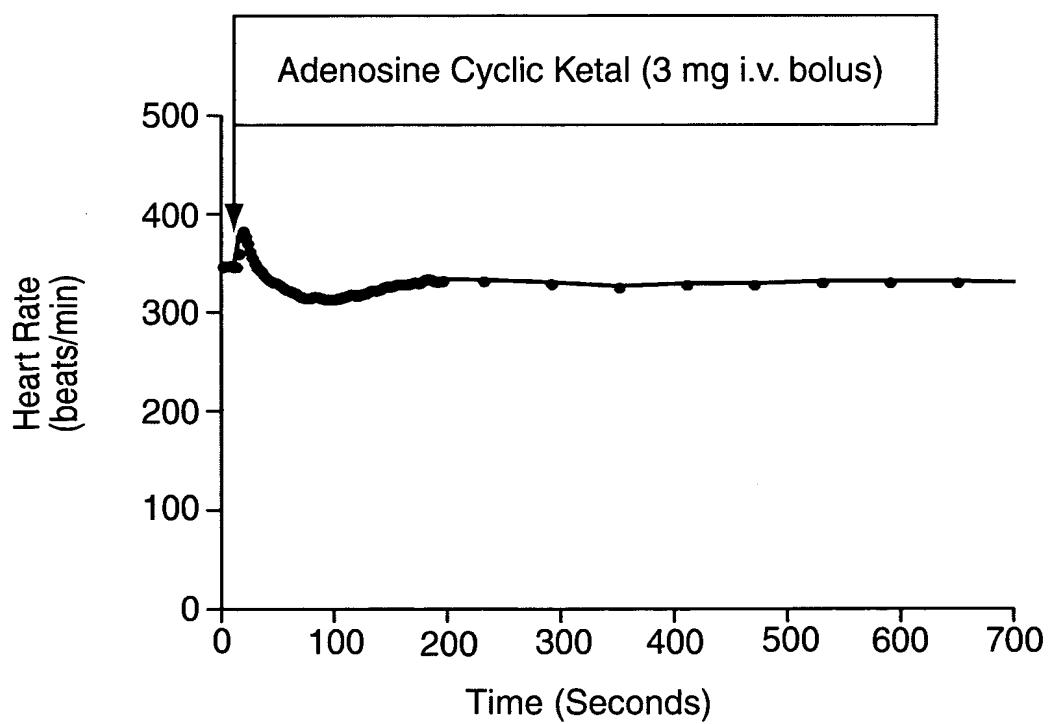


FIG. 4B

6/7

Pretreated with DPSPX (10 mg i.v. bolus + 0.15 mg/min)

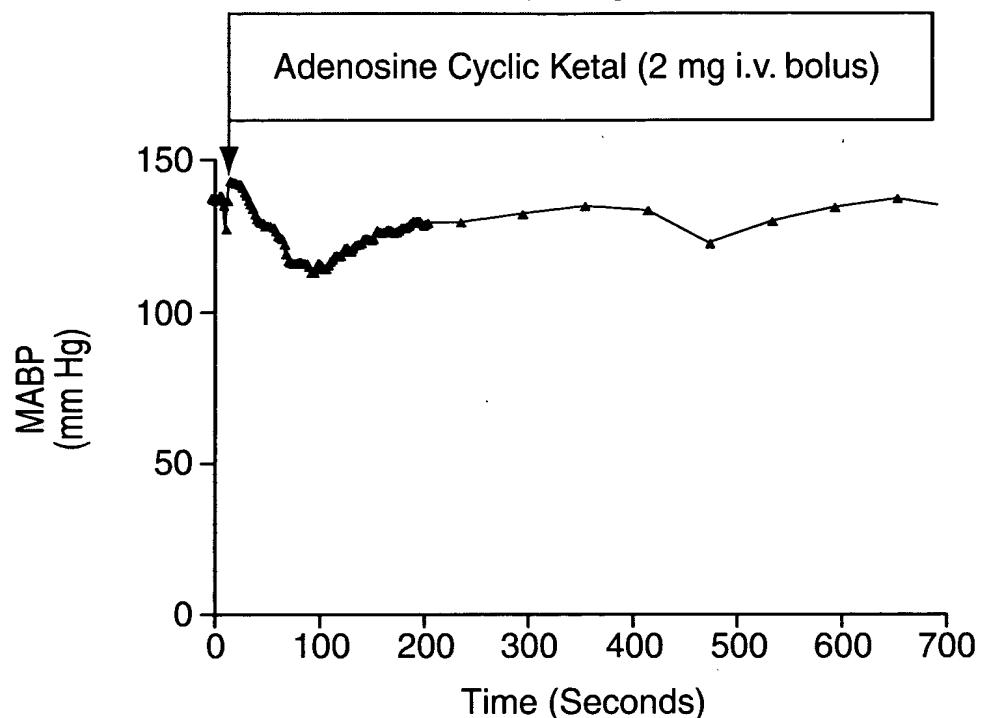


FIG. 5A

Pretreated with DPSPX (10 mg i.v. bolus + 0.15 mg/min)

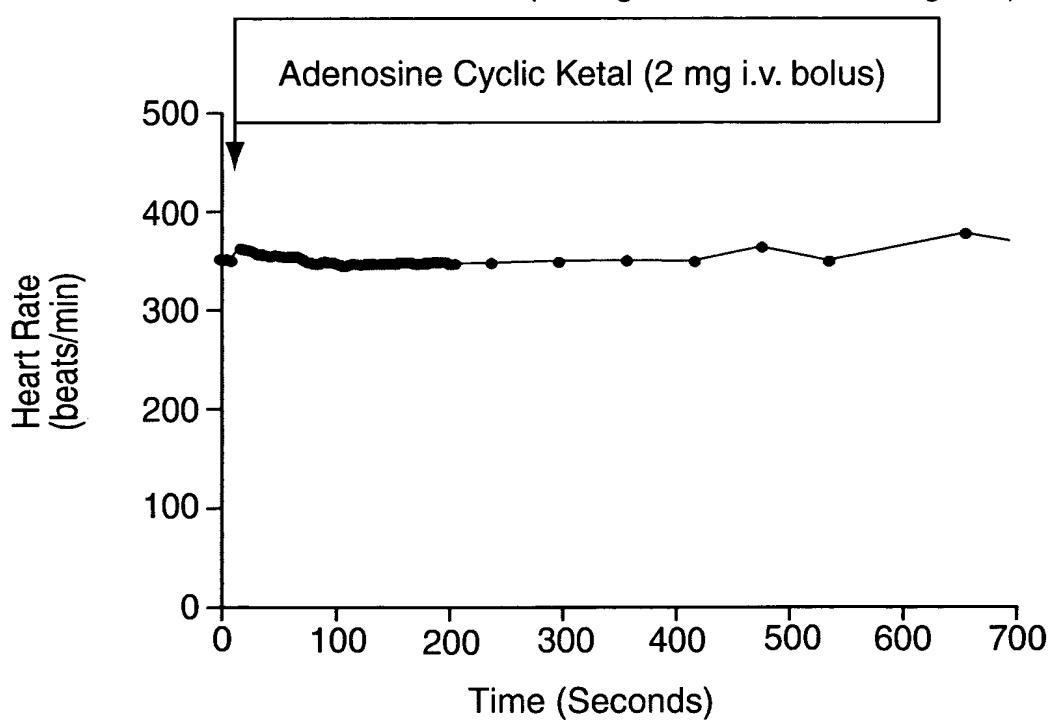


FIG. 5B

7/7

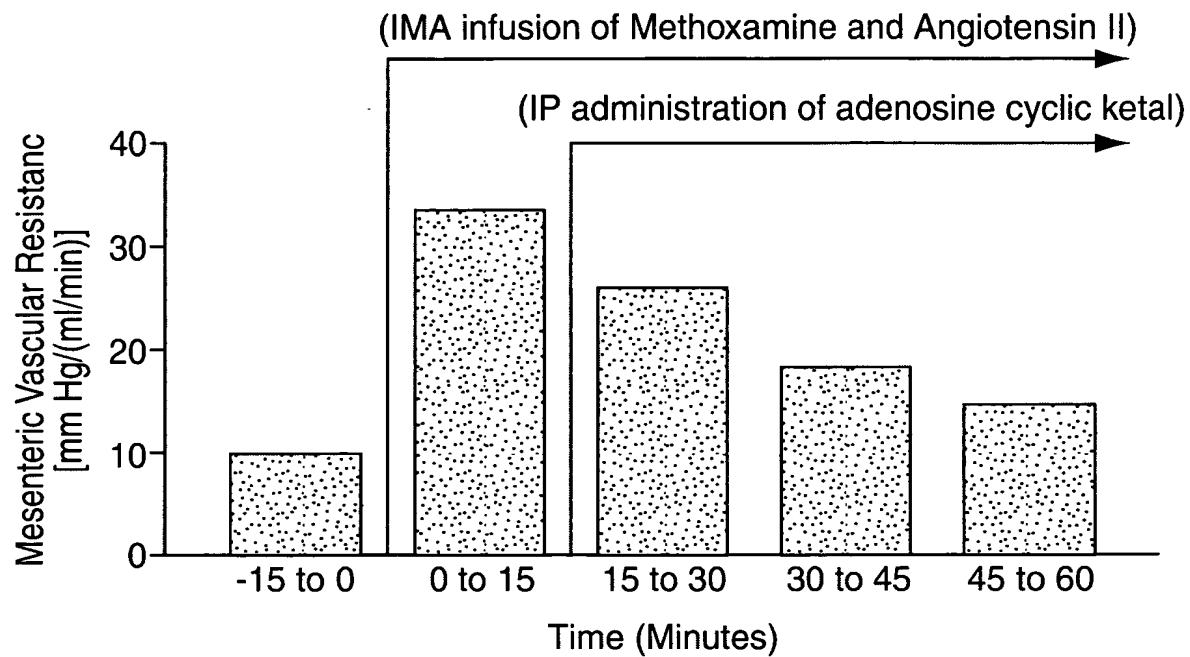


FIG. 6A

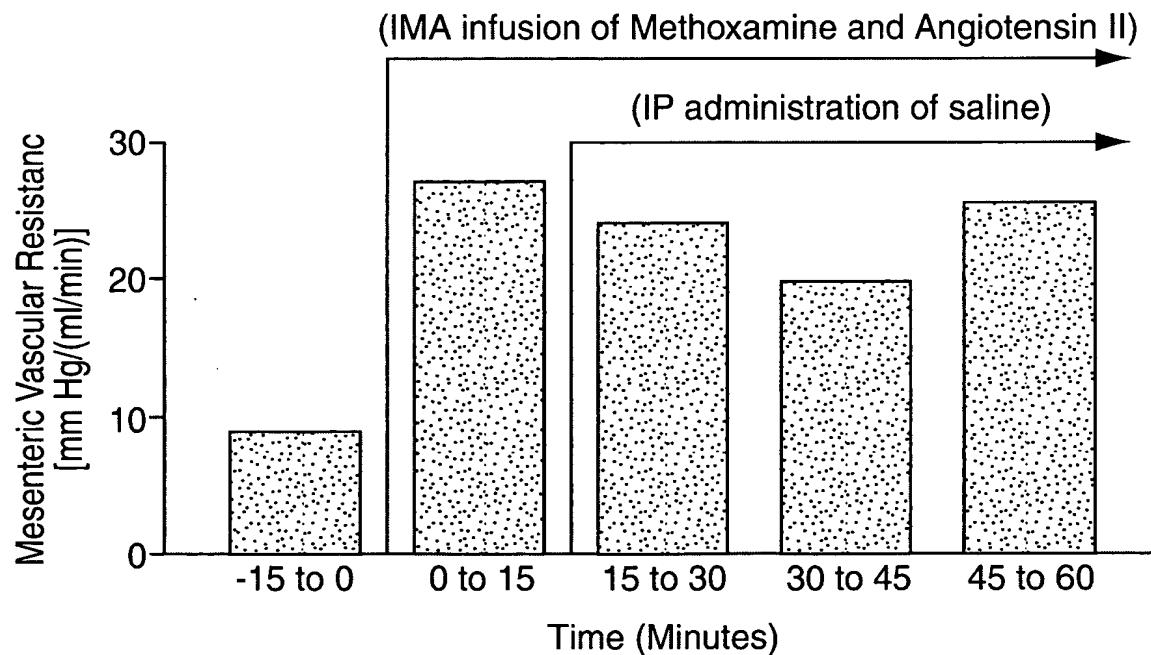


FIG. 6B